CATALYST FOR TREATING HEAVY OIL AND PREPARATION THEREOF

Patent number: JP59006944 (A)
Publication date: 1984-01-14
Inventor(s): MOTOGAMI AKIKIYO; SATOU KAORU; MORIYA KENICHI; SEKIYA JIROU
Applicant(s): NIPPON DEV CONSULT
Classification:
- international: ***C10G47/02; B01J21/16;*** **C10G47/00; B01J21/00;** (IPC1-7): B01J21/16; C10G47/02
- european:
Application number: JP19820115466 19820705
Priority number(s): JP19820115466 19820705

Abstract of **JP 59006944 (A)**

PURPOSE:To obtain a catalyst used in a fluidized catalyst layer available in the catalytic cracking of heavy oil, by baking a slurry in which alophene with a specific particle size and silica alumina hydrogel are mixed in a specific ratio. CONSTITUTION:Alophene is dispersed in a wet system to make an alophene slurry containing a alophene with an average particle size of about 5mum or less and a silicate solution and an acidic Al liquid are added to said slurry to form silica alumina therein. In the next step, after the volume of the slurry is reduced to about 1/2-1/10 by dehydration and concentration to remove impurities, water is added to the concn. slurry to adjust the slurry concn. to about 15-25% and the diluted slurry is spray dried. In this case, the ratio of an alophene and the aforementioned gel may be adjusted in such a manner that alophene content occupies 5-80% of a final catalyst. Thus obtained catalyst is treated so as to bring the specific surface area thereof to about 35-250m<2>/g and the specific gravity thereof to about 0.45-0.95 and, when it is used in the catalytic cracking of heavy oil, dehydrogeneration reaction and dehydrocyclization reaction are remarkably promoted.